

Santa Fe Energy Company

Western Division
4800 Easton Drive, Suite 120
Bakersfield, California 93309
805/322-3992

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DIVISION OF OIL & GAS
BAKERSFIELD

February 3, 1983

Mr. David Mitchell
DIVISION OF OIL & GAS
4800 Stockdale Hwy. Ste. #417
Bakersfield, CA 93309

Dear Mr. Mitchell:

In answer to your January 24, 1983 memo concerning waste water injection into the Chanac Zone, enclosed is a copy of the chemical analysis run on two injection streams. The only exception to the reported results is oil content of the waste stream. We plan to install a reclamation plant in the near future which will result in an oil count of about 5 ppm or less. The report is based on raw water shipped to Chevron for their use.

The economic impact of disallowing injection into this well would be significant. The brine stream would cost about \$600 per day to haul to a disposal site. This includes \$400/day trucking and \$200/day disposal charge.

Although the waste water stream is normally allocated to other uses (steam generation, excess to Chevron, USA), the emergency standby service this well provides is invaluable. Prior to its availability, upsets in the other disposal options forced shut-in of oil production. 300 bbls/day of lost production was not uncommon. At 50 days/year and \$21.50/bbl, this was costing about \$300,000/year.

Since the stream can be separated, we can eliminate either from subsurface injection. Obviously since frequently no other disposal option is available for waste water, we would most definitely like to keep this alternative available.

Sincerely,

C.D. Osborne

C. D. Osborne
MANAGER OF OPERATIONS

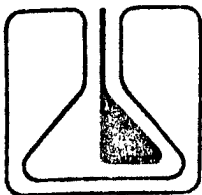
JAJ:fg
cc: J. A. Jones
S. H. Lewis
R. W. Wurster
J. B. Williams
D. D. Lindgren
Rs. Bk. KR

W02-JAJ-DOG-2/83



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ZALCO LABORATORIES, INC.
Analytical & Consulting Services

DIVISION OF OIL & GAS
BAKERSFIELD

Santa Fe Energy
4800 Easton Drive, S 120
Bakersfield, CA 93309

Laboratory No: 8027
Date Received: 1-31-83
Date Reported: 2-1-83

Attention: Jeff Jones

Sample: Water		400 B/L	0 to 30,000 B/L
Sample description: Kern River CP		<u>Brine</u>	<u>Waste</u>
Oil	ppm		358
Boron, B	ppm	1.41	2.06
Chloride, Cl	ppm	12,080	180
Bicarbonate, HCO ₃	ppm	147	167
Carbonates, CO ₃	ppm	0	0
Sodium, Na	ppm	5,935	173
Potassium, K	ppm	51.6	9.3
Total Dissolved Solids	ppm	18,870	602

ANALYSIS 342-111

Jim F. Therton
Jim F. Therton
Laboratory Director

JF/sw

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